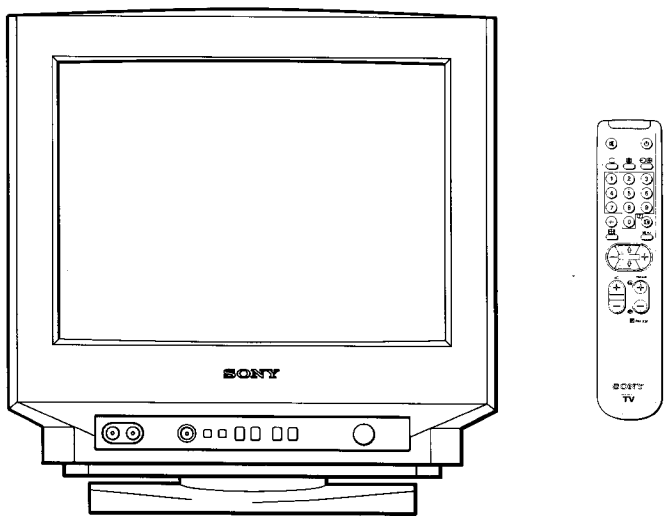
BE-4 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-14M1A	RM-836	Italian	SCC-H64G-A
KV-14T1A	RM-836	Italian	SCC-H64F-A
KV-14M1B	RM-836	French	SCC-H65F-A
KV-14T1B	RM-836	French	SCC-H65E-A
KV-14M1D	RM-836	AEP	SCC-H46G-A
KV-14T1D	RM-836	AEP	SCC-H46F-A
KV-14M1E	RM-836	Spanish	SCC-H66F-A
KV-14T1E	RM-836	Spanish	SCC-H66E-A
KV-14M1K	RM-836	OIRT	SCC-H52H-A
KV-14T1K	RM-836	OIRT	SCC-H52F-A
KV-14M1L	RM-836	Irish	SCC-H51D-A
KV-14T1L	RM-836	Irish	SCC-H51C-A
KV-14T1R	RM-836	OIRT	SCC-H52G-A
KV-14M1U	RM-836	UK	SCC-H50F-A
KV-14T1U	RM-836	UK	SCC-H50E-A



MICROFILM

TRINITRON® COLOR TV

SONY®

ITEM MODEL	Television System	Channel Coverage	Colour System
Italian	B/G/H	VHF: E2-E12, S1-S20, A-H, H1,H2 UHF: E21-E69, S21-S41	PAL
French	B/G/H, L	VHF: E2-E12, S1-S20, F2-F10, B-Q UHF: E21-E69, S21-S41, F21-F69	PAL, SECAM
AEP	B/G/H	VHF: E2-E12, S1-S20 UHF: E21-E69, S21-S41	PAL, SECAM
Spanish	B/G/H	VHF: E2-E12S1-S20 UHF: E21-E69, S21-S41	PAL
OIRT	B/G/H, D/K	B/G/H VHF: E2-E12 UHF: E21-E69 D/K VHF: R01-R12 UHF: R21-R69	PAL, SECAM NTSC3.58/4.43 (video input only)
Irish UK	I	14M1L/14T1L UHF: 21-69 VHF: A-J 14M1U/14T1U UHF: 21-69	PAL

MODEL	14M1A 14T1A	14M1B 14T1B	14M1D 14T1D	14M1E 14T1E	14M1K 14T1K	14M1L/14T1L 14M1U/14T1U	14T1R
Power Consumption	39W	39W	39W	39W	39W	50W	39W

SPECIFICATIONS

Picture Tube — Super Trinitron
Approx. 37 cm (14 inches)
(Approx. 34 cm picture measured diagonally)
110° -deflection

Rear/Front Terminals

[INPUTS]

21-pin Euro connector (CENELEC standard)
- Including audio / video input
- Including RGB input

Front connectors
Video (phono jack)
Audio (phono jack)

[OUTPUTS]

Headphone jack: minijack

Sound output — 3W (music power)
2W (RMS)

Dimensions — With tilt-swivel
373x385x408 mm approx.
Without tilt-swivel
373x360x408 mm approx.

Weight — Approx. 10.0 kg

Supplied accessories — RM-836 Remote Commander (1)
IEC designated batteries (2)
Tilt-swivel stand (1)
Antenna (1)

Other features
Teletext/Fastext (KV-14T1A/14T1B/14T1D/14T1E)
Teletext (KV-14T1K/14T1L/14T1R/14T1U)

[RM-836]

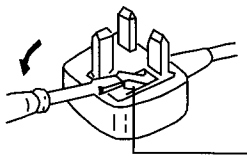
Remote control system	Infrared control
Power requirements	3V dc (2 batteries) R6 (size AA)
Dimensions	Approx. 210x45x24 mm (w/h/d)
Weight	Approx. 90g (Not including battery)

Design and specifications are subject to change without notice.

Item \ Model name	KV-14M1A KV-14T1A	KV-14M1B KV-14T1B	KV-14M1D KV-14T1D	KV-14M1E KV-14T1E	KV-14M1K KV-14T1K	KV-14T1R	KV-14M1L KV-14T1L KV-14M1U KV-14T1U
MPIP	OFF	OFF	OFF	OFF	OFF	OFF	OFF
PIP	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Scart 1	ON	ON	ON	ON	ON	ON	ON
Scart 2	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Front in (3)	ON	ON	ON	ON	ON	ON	ON
Scart 4	OFF	OFF	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON	ON	ON
Txt/FLOF	ON (14T1A only)	ON (14T1B only)	ON (14T1D only)	ON (14T1E only)	ON (14T1K only)	ON	ON (14T1L/14T1U only)
TOPText	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Norm B/G/H	ON	ON	ON	ON	ON	ON	OFF
Norm I	OFF	OFF	OFF	OFF	OFF	OFF	ON
Norm D/K	OFF	OFF	OFF	OFF	ON	ON	OFF
Norm AUS	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Language Preset	Italian	French	German	Spanish	OIRT	OIRT	English

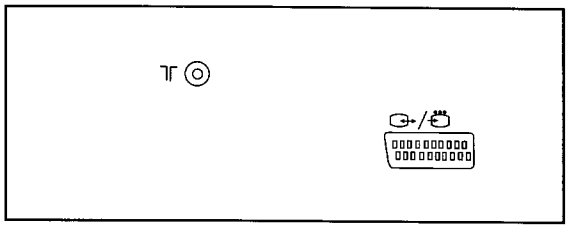
WARNING (KV-14M1L/14T1L/14M1U/14T1U only)

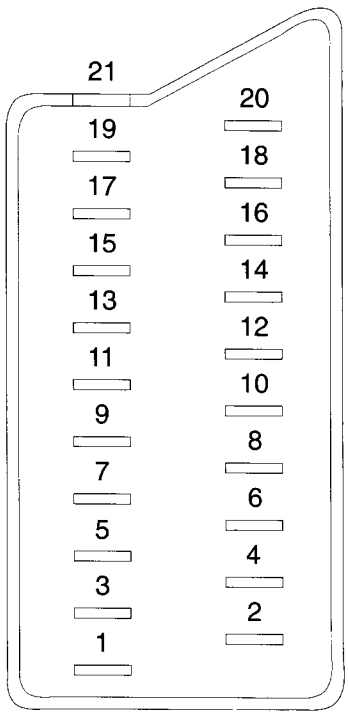
The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** capacity. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by **ASTA** to **BS 1362**, ie one that carries the ASTA mark.
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR YOUR SOCKET OUTLETS IN YOUR HOME.
IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED.
THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET OUTLET.
When an alternative type of plug is used it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5 AMP FUSE** at the distribution board.



How to replace the fuse.
Open the fuse compartment with the screwdriver blade and replace the fuse.

21 pin connector (1)





Pin No.	1	2	4	Signal	Signal Level
1	○	○	○	Audio output B (Right)	Standard level : 0.5V rms Output impedance : Less than 1k ohms*
2	○	○	○	Audio input B (Right)	Standard level : 0.5V rms Output impedance : More than 10k ohms*
3	○	○	○	Audio output A (Left)	Standard level : 0.5V rms Output impedance : Less than 1k ohm*
4	○	○	○	Ground (Audio)	
5	○	○	○	Ground (Blue)	
6	○	○	○	Audio input A (Left)	Standard level : 0.5V rms Output impedance : Less than 10k ohm*
7	○	●	●	Blue input	0.7 ± 3dB, 75 ohms, positive
8	○	○	○	Function select (AV control)	High state (9.5 - 12V) : Part mode Low state (0 - 2V) : TV mode Input impedance : More10k ohms Input capacitance : Less than 2nF
9	○	○	○	Ground (Green)	
10	○	○	○	Open	
11	○	●	●	Green	
12	○	○	○	Open	
13	○	○	○	Ground (Red)	
14	○	○	○	Ground (Blanking)	
15	○	—	—	Red input	0.7 ± 3dB, 75 ohms, positive
	—	○	○	(S signal) croma input	0.7 ± 3dB, 75 ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1 - 3V) Low state (0 - 0.4V) Input impedance : 75 ohms
17	○	○	○	Ground (Video output)	
18	○	○	○	Ground (Video input)	
19	○	○	○	Video output	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
20	○	—	—	Video input	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
	—	○	○	Video input Y (S signal)	1V ± 3dB, 75ohms, positive sync : 0.3V (-3 + 10dB)
21	○	○	○	Common ground (plug, sheild)	

○ Connected ● Not Connected (Open) * at 20Hz - 20kHz

Pin No.	Signal	Signal Level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm, positive Sync. 0.3V -3 + 10dB
4	C (S signal) input	0.3V ± 3dB 75ohm, positive Sync.

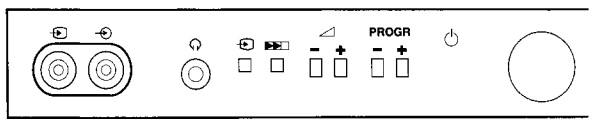


TABLE OF CONTENTS

Section	*Title*	*Page*
1.	**GENERAL**	
	Getting Started	7
	TV Operation	8
	MENU Operation	9
	Optional Connections	12
	Additional Information	13

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

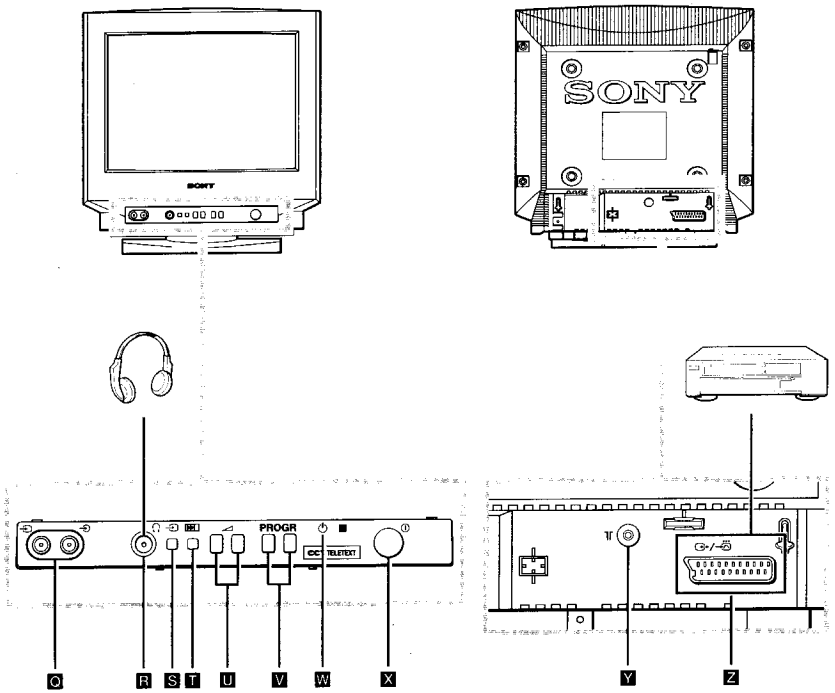
AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.
LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

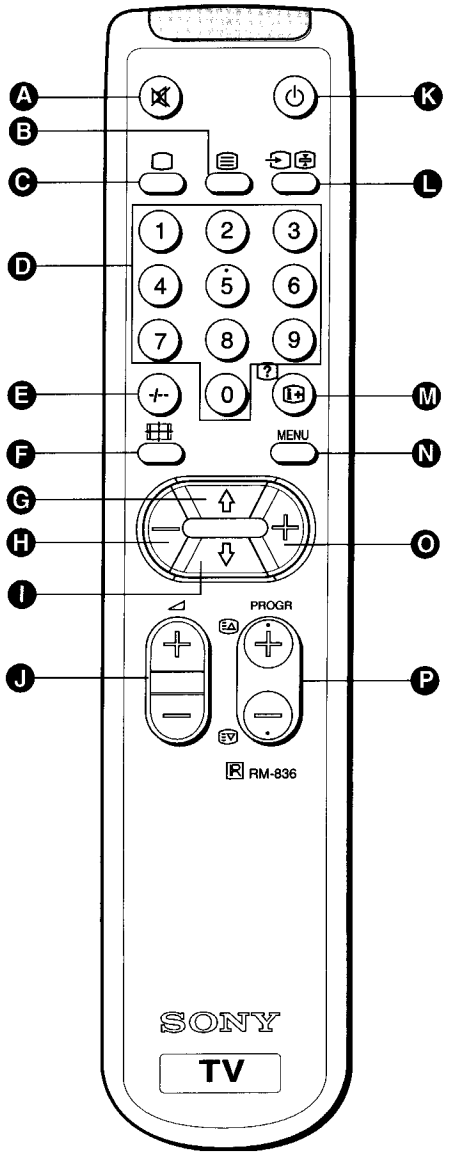
ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE PUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 GENERAL

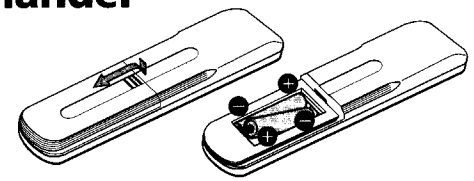
The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.





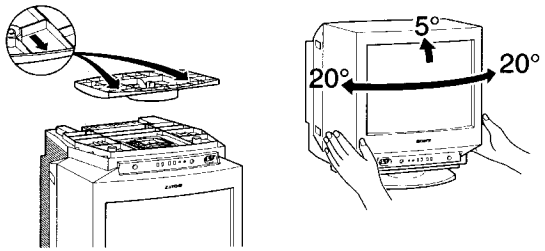
Step 1

Inserting the Batteries into the Remote Commander



Step 2

Installing the Tilt-Swivel



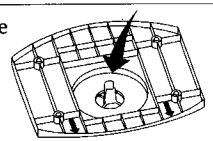
1 Turn the TV upside down onto a soft base.

2 Check that the arrows point forward and clip the swivel to the base of the TV.

3 Turn the TV again.

4 Use the tilt-swivel to bring the TV into the optimum viewing position.

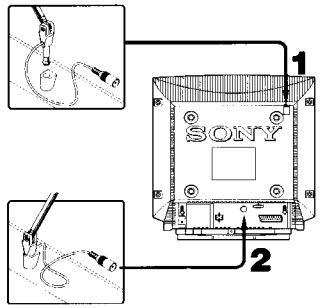
Note • To remove the tilt-swivel, check that the arrows are pointing forward, pinch the clip of the swivel and pull away from the base of the TV.



Step 3

Connecting the Aerial

If you connect a VCR, skip to step 4.



Connect an external aerial to the socket Y.
Where an external aerial is not available connect the indoor aerial supplied:

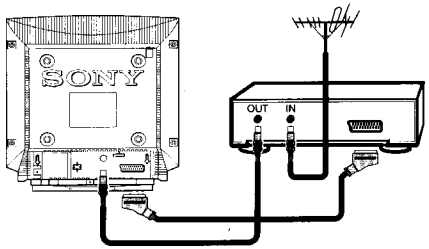
1 Insert the supplied aerial into the opening on top of the set.

2 Connect the aerial to the socket Y on the rear of the set.

3 Adjust the aerial for optimum reception.

Step 4

Connecting a VCR



- It is recommended to tune in the VCR signal to programme number "0". For details, see "Presetting Channels Manually" on page 13.

Step 5

Presetting Channels Automatically

TV searches for all available channels. If manual tuning is preferred see Menu option - Presetting Channels Manually.

1 Plug into mains.
Depress power switch ⏻ X on TV set.

2 Press and hold ⏭ T on TV set until auto tuning starts and screen shows.

Note • When Auto tuning stops the programme on position 1 is seen.

TV Operation

This section explains functions used whilst watching TV. Most operations are carried out using the Remote Commander.

To	Press
Switch on	⏻ X on TV
Switch off temporarily	⏻ J *TV is now in standby mode, ⏻ indicator W on TV lights.*
Switch on again	▢ C, PROGR +/- P V or any number button D
Switch off completely	⏻ X on TV *To save energy we recommend switching off completely when TV is not in use.*
Select programmes	PROGR +/- P V or number buttons D *For double digit numbers press -/-- E then the number e.g. For 23, press -/-- E then 2 and 3.*
Display the programme number	⊡ L *Press again to make programme number disappear.*
Adjust the volume	◿+/- I U
Mute the sound	🔇 A *Press again to restore sound.*
View video input	⏎ K S *Press again to return to TV programme.*
View programmes in 16:9 mode	▭ F *Press again to return to 4:3 mode.* **Note** • ▭ F is to be used to optimise the viewing of 16:9 signals which will be available in the future.

Viewing Teletext

Teletext is an information service broadcast by TV stations.

1 Select the channel which carries the teletext service you wish to receive.

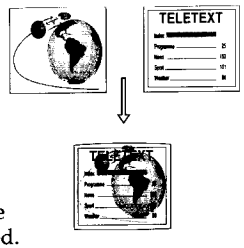
2 Press ▤ Ⓑ to switch on teletext.

3 Input three digits for the page number using the programme number buttons Ⓓ or PROGR +/- ⓅⓋ.

4 Press ▢ Ⓒ to switch off teletext.

Note • Teletext errors may occur if the broadcasting signals are weak.

Using Other Teletext Functions



Superimposing teletext on the TV

Press ▤ Ⓑ once in teletext mode or twice in TV mode to superimpose teletext on the TV screen.
Press ▤ Ⓑ again to cancel superimposing.

Freezing a teletext subpage

Press ⊕ Ⓚ (HOLD) to freeze the subpage. Freezing the page prevents the information that is displayed from being updated.
Press ⊕ Ⓚ to cancel HOLD and allow update to continue.

Revealing concealed information (eg: answers to a quiz)

Press ? Ⓛ to reveal information.
Press again to conceal the information.

Using colour buttons to access pages

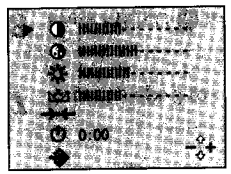
When the colour coded menu appears at the bottom of a page, press the colour button (red, green, blue or yellow) ⒼⒽⓄⓃ to access the corresponding page.

Note • A programme status message in a blue box may appear when you change programmes (depends on broadcasters).

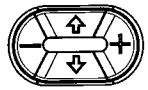
Use buttons on Remote Commander to control Menu screen.

MENU Ⓜ
Menu Screen on/off

Green Ⓖ
scroll up



Red Ⓗ
decrease



Yellow Ⓝ
increase/confirm(OK)

Blue Ⓞ
scroll down

Adjusting the Picture

1 Press MENU Ⓜ.

2 Press green Ⓖ or blue Ⓞ button to select the item you wish to change.

Symbol	Item	- Effect	+
◑	Picture	Less	More
◕	Colour	Less	More
☼	Brightness	Darker	Brighter
⊿	Hue	Reddish	Greenish

Note • Hue is available only when NTSC signal is input.

3 Press red Ⓗ or yellow Ⓝ button to change levels.

4 Press MENU Ⓜ to return to normal TV screen.

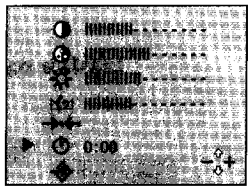
Note • To reset to factory preset picture levels, press green Ⓖ or blue Ⓞ button to select →•← and press yellow (OK) Ⓝ button.

Using the Sleep Timer

The TV may be set to switch to the standby mode automatically after a length of time chosen by you. You may set the time in 30 minutes steps up to 4 hours.

1 Press MENU Ⓜ.

2 Press green Ⓖ or blue Ⓞ button to select ⏻.



3 Press red Ⓗ or yellow Ⓝ button to set time delay.
0.00 (OFF) 0.30 1.00 1.30 .... 4.00

4 Press MENU Ⓜ to return to normal TV screen.
When watching TV, press ⓘ Ⓛ to display time remaining.

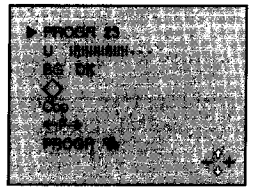
Presetting Channels Manually

Up to 60 programme positions are available for presetting channels.

1 Press MENU Ⓜ.

2 Press green Ⓖ or blue Ⓞ button to select ⇨ and press yellow (OK) Ⓝ button.

3 Select programme number using PROGR +/- ⓅⓋ or the number buttons Ⓓ.



4 Press green Ⓖ or blue Ⓞ button to select TV system (BG or DK) if necessary and press red Ⓗ or yellow Ⓝ button to change TV system.

5 Press green Ⓖ or blue Ⓞ button to select tuning bar (||||||····) and press red Ⓗ or yellow Ⓝ button to start channel search. When a channel is found the tuning bar stops moving and you see the picture.

6 If you want to store, press green Ⓖ or blue Ⓞ button to select ◇ and press yellow (OK) Ⓝ button. If you do not want to store, press red Ⓗ or yellow Ⓝ button to continue search.

7 Repeat steps 3 to 6 for all other channels.

8 Press MENU Ⓜ to return to normal TV screen.

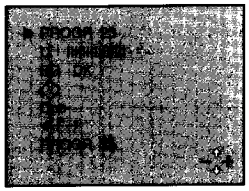
Skipping Programme Positions

You can skip unused programme positions when selecting channels with the PROGR +/- P V buttons. You can still select them, however, using the number buttons D.

1 Press MENU M.

2 Press green G or blue O button to select ⇨ and press yellow N button.

3 Select programme number you want to skip using PROGR +/- P V button or number buttons D.



4 Press green G or blue O button to select Coo and press yellow (OK) N button.

5 Press green G or blue O button to select ◇ and press yellow (OK) N button to store.

6 Repeat steps 3 to 5 for other unused programme positions.

7 Press MENU M to return to normal TV screen.

Fine-Tuning Channels

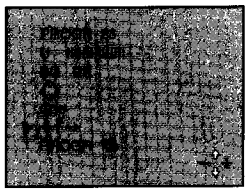
You can fine tune a stored channel if necessary.

1 Select the channel you wish to fine tune.

2 Press MENU M.

3 Press green G or blue O button to select ⇨ and press yellow (OK) N button.

4 Press green G or blue O button to select ←F→ and use red H or yellow N button to adjust tuning.



5 Press green G or blue O button to select ◇ and press yellow (OK) N button to store.

6 Press MENU M to return to normal TV screen.

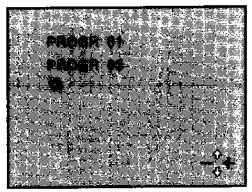
Exchanging Programme Positions

After tuning you may wish to rearrange the programme positions.

1 Press MENU Ⓜ.

2 Press green Ⓖ or blue Ⓞ button to select ⇨ and press yellow (OK) Ⓝ button.

3 Press green Ⓖ or blue Ⓞ button to select PROGR and press yellow (OK) Ⓝ button.



4 Press red Ⓗ or yellow Ⓝ button to select the first programme position.

5 Press the blue Ⓞ button.

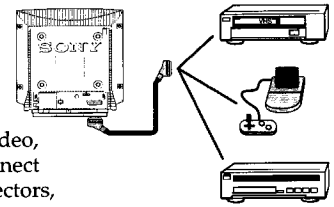
6 Press the red Ⓗ or yellow Ⓝ button to select the second programme position.

7 Press blue Ⓘ button to select and press yellow (OK) Ⓝ button to exchange.

8 Repeat steps 4 to 7 for other programme positions.

9 Press MENU Ⓜ to return to normal TV screen.

Using the Connectors



Your TV has one 21-pin connector Ⓩ on the rear of the set and two connectors (phono jacks ⇨ video, ⇨ audio) Ⓠ on the front of the set. You can connect optional audio or video equipment to these connectors, such as a VCR, video games or a video disc player.

1 Press ⇨ ⓀⓈ to view the video input signal.

2 Press ⇨ ⓀⓈ or ▢ Ⓒ to return to the normal TV screen.

Note • To avoid picture distortion, do not use the 21-pin connector and the front connectors at the same time.

Connecting Headphones

Plug in the headphones to the ∩ Ⓡ socket on the front of the TV set, to mute the sound from the speaker.

Troubleshooting

Here are some simple solutions to the problems which affect the picture and sound.

Problem	Solution
No picture, screen is dark, no sound	• Plug the TV in. • Press ⏻ X on the TV. • Press ▢ C or the programme number D on the remote commander if ⏻ indicator W is on. • Check the aerial connection. • Check that the video source is on. • Turn the TV off for 3 or 4 seconds and then turn it on again using ⏻ X.
Poor or no picture (screen is dark, sound is good)	• Press MENU M and adjust brightness picture and colour levels.
Good picture, no sound	• Adjust the volume ◿ +/– I U . • Disconnect any headphones. • Press 🔇 A if 🔇 is displayed on the screen. • Press MENU M and select appropriate TV system.
No colour on colour programmes	• Press MENU M and adjust colour balance. • Press MENU M and reset to factory settings.
Distorted picture when you change programmes or select teletext	• Turn off the equipment connected to the 21-pin connector Z.
Partially discoloured picture when you swivel the TV	• Turn off the TV for fifteen minutes using the power switch ⏻ X on TV set then turn on again.
Remote commander does not function	• Replace the batteries.

- **If you continue to have these problems, have your TV serviced by qualified personnel.**
- **NEVER open the casing yourself.**